

DATA AVAILABLE FOR THE NORTH ATLANTIC FIN UNDER PROCEDURE A

(Updated from the Scientific Committee report in Sorrento, Annex D Appendix 6)

Inventory of available information.

Item	Details	Raw format	Where held	Analytical methods	Key papers	Comments
Operational data						
Catch history	Updated Donovan table -	Electronic	IWC		IWC (1992), Best (1992), Bloch and Steffanson (2003), NAMMCO (2003)	
Effort data	Iceland catch per vessel 1901-1915	Electronic	IWC	CPUE	Butterworth and Punt (1992), Cunningham and Butterworth (2003)	Description of data submitted by Iceland is given in Sigurjonsson <i>et al.</i> (1991c).
	Iceland CPUE 1962-1987 Icelandic operational factors	Electronic Paper	IWC MRI	CPUE	Butterworth and Punt (1992), Cunningham and Butterworth (2003) Sigurjonsson (1988)	Catch per time searching for first whale in a trip. Separate series for four vessels.
Abundance						
Shipboard	NASS-87, Iceland	Electronic	IWC	Line transect	Buckland <i>et al.</i> (1992a)	
	NASS-87 Faroes	Electronic	IWC??	Line transect	Buckland <i>et al.</i> (1992a)	
	NASS-87 Norway	Electronic	IWC	Line transect	Øien (1990)	
	NASS-87, Spain	Electronic	IWC	Line transect	Buckland <i>et al.</i> (1992b)	
	NASS-89, Iceland	Electronic	IWC	Line transect	Gunnlaugsson and Sigurjonsson (1990), Buckland <i>et al.</i> (1992a), Sigurjonsson <i>et al.</i> (1991b)	
	NASS-89, Faroes	Electronic	IWC	Line transect	Christensen <i>et al.</i> (1992)	
	NASS-89, Norway	Electronic	IWC	Line transect	Buckland <i>et al.</i> (1992b)	
	NASS 89, Spain	Electronic	IWC	Line transect	Borchers and Burt (1997), Sigurjonsson <i>et al.</i> (1996)	
	NASS 95, Iceland	Electronic	IWC	Line transect	Øien (2003)	
	NASS-95, Faroese	Electronic	NHM, Faroes	Line transect	Pike <i>et al.</i> (2003), Gunnlaugsson <i>et al.</i> (2002)	
	NASS-95, Norway	Electronic	IWC	Line transect	Pike <i>et al.</i> (2003), Gunnlaugsson <i>et al.</i> (2002)	
	NASS 2001, Iceland	Electronic	IWC	Line transect		
	NASS 2001, Faroes	Electronic	NHM, Faroes	Line transect	Goujon <i>et al.</i> (1995)	
	Eastern-temperate N-Atlantic, 1993	Electronic	IWC	Line transect	Forcada <i>et al.</i> (1996)	
	Western Mediterr. 1991	Electronic		Line transect	Pike <i>et al.</i> (2003a)	
Iceland 2003	Electronic		MRI	Line transect - trends 1987-2001	Gunnlaugsson <i>et al.</i> (2004)	
Aerial	Iceland 1983-2003	Electronic	MRI	Sighting rates		
	West Greenland, 1993	Electronic	IWC	Cue counting	Larsen (1995)	
	Iceland 1986	Electronic	IWC	Cue counting	Gunnlaugsson <i>et al.</i> (1988)	
	NASS-87	Electronic	IWC	Cue counting	Hiby <i>et al.</i> (1989)	
	NASS-95	Electronic	IWC	Cue counting	NAMMCO (1998)	
	NASS-2001	Electronic	IWC	Cue counting	Pike <i>et al.</i> (2002)	
	Western North Atlantic, 1995, 1999	Electronic	NEFSC	Line transect	Waring <i>et al.</i> (2002)	
Iceland, April 2004	Electronic	MRI	Cue counting	Pike <i>et al.</i> (2004b)		
Stock structure and mixing rates						
Genetic	Protein systems	Electronic	MRI		Danielsdóttir <i>et al.</i> (1991), Árnason <i>et al.</i> (1992), Danielsdóttir (1999)	See below for details
	Nuclear DNA	Electronic	MRI		Danielsdóttir (1999)	
	Nuclear and mtDNA, North Atlantic and Mediterranean	Electronic	Bérubé		Bérubé <i>et al.</i> (1998)	
Morphometric	Comparisons of fin whales of Iceland and Spain	Electronic	L. Jover; MRI	Ancova	Jover (1992), Víkingsson (1992)	
Discovery marks	1950-1984: 685 marks, 97 recoveries	Electronic	IWC?		Sigurjonsson <i>et al.</i> (1991a), Mitchell (1974), Rørvik <i>et al.</i> (1976), Sigurjonsson and Gunnlaugsson (1985), Gunnlaugsson and Sigurjonsson (1989), Cooke (1992), Gunnlaugsson (1992)	
Telemetry	W-Greenland, Aug-Sep. 2000-2001: 2 tracks, 76 and 32 days	Electronic		Movements	Heide-Jørgensen (2003)	
	Faroes, August 2001: 2 tracks for 108 and 116 days	Electronic	NHM, Faroes	Movements	Mikkelsen <i>et al.</i> (2003)	

Iceland, June 1980; VHF track, 9.5 days Electronic MRI Movements, dive times Watkins *et al.* (1984a)

Cont.

Item	Details	Raw format	Where held	Analytical methods	Key papers	Comments
Stock structure and mixing rates cont.						
Telemetry cont.	Iceland Aug. 1994: 1 satellite track for 45 days	Electronic	MRI	Movements	Watkins <i>et al.</i> (1984b)	
	Southern Spain	Electronic			Segura (2003)	
Biological parameters	Iceland, 1967-1989, reproductive data	Electronic	MRI	Temporal trends, age at maturity, fecundity, age compositions	Lockyer and Sigurjónsson (1991)	
	Norway			Comparison of age at sexual maturity and fecundity between West- and North Norway	Haug (1981)	
Ecological	Geographical variation in PCBs	Electronic			Hobbs <i>et al.</i> (2001)	

Additional information on genetic data: summary of the number of fin whale samples examined for allozyme, mtDNA RFLP and microsatellite genetic markers at the Marine Research Institute, Iceland 30 November 2004

LOCATION	Year of Sampling	Allozymes Liver	Allozymes Skin	Carbonic anhydrase	MtDNA-RFLP	MICROSATELLITE DNA LOCI
		Number screened:	Number screened:	Number screened:	Number screened:	Number screened:
Iceland	1981			177		180
Iceland	1982			138		170
Iceland	1983			136		140
Iceland	1984			155		150
Iceland	1985	65		145	11	150
Iceland	1986	71		73	10	70
Iceland	1987	78		79	9	75
Iceland	1988	67	24	66	8	67
Iceland	1989			65		67
	TOTAL	281	24	1034	38	1069
Spain	1983			13		
Spain	1984			13		
Spain	1985	46			10	46
	TOTAL	46		26	10	46
Norway	1991		18			18
Norway						39
	TOTAL		18			57
West Greenland						10
	TOTAL					10
Canada	1971		12			12
Canada	1972		12			12
Canada	1992		10			10
Canada	1993		4			4
	TOTAL		38			38

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